The Development of Liberal Arts and Sciences

[illegible] [illegible]

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[illegible] Technological Singularity [illegible]

[illegible] [2][illegible]

[illegible]

[illegible]

Leukotomy [illegible] [3][illegible]

In Math We Trust[illegible]Technological Singularity[illegible]AlphaGo Zero [illegible] superhuman [illegible]“[illegible]”[illegible] [4][illegible]

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[illegible]

[illegible]

[illegible]

[illegible] [5][illegible] [6][illegible]

[illegible]

[illegible] [7][illegible]

[illegible]

[illegible] [8][illegible]

[illegible]Ibn al-Haytham [illegible]

[illegible]

[illegible]

[illegible] 13 [illegible] 14 [illegible]

[illegible]

[illegible]

[illegible] 15[illegible]16 [illegible]well-controlled [illegible] (Filippo Brunelleschi)[illegible]

[illegible] [9][illegible]

[illegible]

[illegible]

17 [illegible]

[illegible]

[illegible] [10][illegible]

[11][illegible]

[illegible] [12][illegible]

[illegible] peer review [illegible]

[illegible]

[illegible]

[illegible] well-controlled [illegible] [13][illegible] [14][illegible]

[illegible] metaphysics [illegible] [15][illegible]

[illegible]

[illegible]

18 [illegible]

[illegible][illegible]

[illegible] [16][illegible]

[illegible]

[illegible] epistemology [illegible] critique [illegible]

[illegible]

[illegible]

[illegible]

[illegible] 19 [illegible] 19 [illegible]

[illegible]

[illegible]

[illegible] 1819 [illegible] Ferdinand Karl Schweikart [illegible] 1830 [illegible]

[illegible] [17][illegible]

[illegible] [18][illegible]

[illegible] [19][illegible]

[illegible] [20][illegible]

[illegible]“[illegible]”[illegible]

[illegible]

[illegible]

[illegible]

[illegible] 20 [illegible]

[illegible] 20 [illegible]

[illegible] [21][illegible] [22][illegible]

[illegible]

[illegible]

[illegible]

[illegible] [23][illegible]

[illegible] leukotomy[illegible] Forrest Gump[illegible]A City upon a Hill[illegible] [24][illegible]

[illegible]

[illegible] personality[illegible] intelligence[illegible]

[illegible]

[illegible] “[illegible]”[illegible] [25][illegible]

[illegible] [26][illegible]

[illegible]

20 [illegible]

[illegible] mainframe[illegible]personal computer[illegible] smartphone [illegible]

[illegible] leukotomy [illegible]

[illegible](Karl Popper)[illegible]

[illegible]

[illegible] [27][illegible]

[illegible]

[illegible] Turing Test[illegible]AlphaGo Zero [illegible] datasets[illegible]

[illegible] Turing Machine [illegible]

Universal approximation theorem [illegible]

[illegible]Technological Singularity [illegible]

[illegible]AI: A Modern Approach[illegible] Wind Tunnel approach [illegible]

[illegible]

[illegible]

[illegible] SAE level 5[illegible] SAE level 4 [illegible] SAE level 4 [illegible] SAE level 4 [illegible]

AlphaGo Zero [illegible] Nature [illegible] superhuman [illegible] Superhuman [illegible] generic [illegible] human[illegible] generic [illegible] superhuman [illegible]

[illegible] AlphaGo Zero [illegible] 19x19 [illegible] AlphaGo Zero [illegible]

[illegible]

[illegible]

[illegible]Occam's Razor [illegible]

Occam's Razor [illegible] Occam's Razor [illegible]

[illegible]

[illegible] Occam's Razor [illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]The Selfish Gene (or The Immortal Gene) [28][illegible]

[illegible]

[illegible]“[illegible]”[illegible] leukotomy [illegible]

[illegible]

[illegible] Gu Test[illegible]A Progressive Measurement Of Generic Artificial Intelligence [illegible]

[illegible] [29][illegible] guideline [illegible] judgement[illegible]“[illegible]”[illegible] [30][illegible]

[illegible]

[illegible]

[illegible] 80[illegible]90 [illegible]PC[illegible] [31][illegible] Internet [illegible] smartphone [illegible]

[illegible]iPhone [illegible] smartphone [illegible] mainframe[illegible]PC [illegible]smartphone [illegible]

[illegible] CPU [illegible] operating system (OS) [illegible] PC[illegible]Internet[illegible] smartphone [illegible]

[illegible] ARM CPU [illegible]Linux [illegible] Android [illegible] CPU [illegible] OS [illegible] [32][illegible]

[illegible] consolidation[illegible] smartphone [illegible] Consolidation [illegible] smartphone [illegible]

[illegible] smartphone [illegible]

[illegible]

[illegible]

[illegible] 1920 [illegible]

[illegible]

[illegible] niche sector [illegible]

[illegible]

[illegible]

[illegible]Matrix [illegible]

[illegible] motif [illegible] motif [illegible] motif [illegible]

[illegible] [33][illegible]

[illegible] Hawthorne effect [illegible]

[illegible]

[illegible]

[illegible] individualism [illegible] [34][illegible]The Selfish Gene ([illegible] The Immortal Gene) [illegible] [35][illegible]

[illegible] Gilded Age[illegible]

[illegible] [36][illegible] Gilded Age [illegible] [37][illegible] 911 [illegible]

[illegible] Gilded Age [illegible] A City upon a Hill [illegible] Forrest Gump [illegible] 911 [illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]“[illegible]”[illegible]

[illegible]

[illegible] Gilded Age [illegible]

[illegible]

[illegible] witch-hunt [illegible]

[illegible]“[illegible]”[illegible]

[illegible]

[illegible]“[illegible]”[illegible]

[illegible]“[illegible]”[illegible]

[illegible]personality[illegible]dimension[illegible] [38][illegible]

[illegible][39] [illegible]

[illegible]“[illegible]”[illegible]

[illegible] [40][illegible] [42][illegible]

[illegible]

[illegible]

[illegible] 1/5 [illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible] Technological Singularity [illegible] AlphaGo Zero [illegible] 19x19 [illegible] AlphaGo Zero [illegible] superhuman [illegible] [44][illegible]

[illegible] Deep Blue [illegible] Demis Hassabis [illegible] [45][illegible] AlphaGo Zero [illegible] superhuman [illegible] Technological Singularity [illegible] AlphaGo Zero [illegible]

[illegible] AlphaGo Zero [illegible] Deep Blue [illegible] AlphaGo Zero [illegible] AlphaGo Zero [illegible]

Deep Blue [illegible] [46][illegible]

[illegible] AI[illegible]A Modern Approach [illegible] Wind Tunnel approach[illegible] 737Max [illegible]

[illegible]

[illegible]

[illegible]

[illegible]

BRAIN Intiative [illegible]

[illegible] Leukotomy [illegible] [47][illegible]

[illegible]

[illegible] Technological Singularity [illegible]

[illegible]

[illegible]

[illegible]

[illegible] [48][illegible]

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[1] [illegible]

[2] [illegible]

[3] [illegible]

[illegible]

[illegible]

[4] [illegible] Chinese room [illegible]

[illegible] In Math We Trust [illegible]

[illegible] Technological Singularity [illegible]

[5] [illegible]

[illegible]

[6] [illegible] guideline [illegible] judgement[illegible]

[7] [illegible]

“[illegible]”[illegible]
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[8] [illegible] John Philoponus [illegible]

[illegible] Ibn al-Haytham [illegible]

[9] [illegible] architect [illegible] architect [illegible] methodology [illegible]

[10] [illegible]

[illegible]

[11] [illegible] personality [illegible]

[illegible]

[illegible] personality [illegible] personality [illegible]

[illegible] physical sciences [illegible]

[12] [illegible] 1630 [illegible]

[illegible] 1632 [illegible]

[13] [illegible]

[illegible] 1687 [illegible]

[14] [illegible] [illegible]

[15] [illegible] Gödel's theorems suggest metaphysics from humans may not work. I do not cross the boundary between religion and science.

[illegible] Je pense, donc je suis [illegible]

[illegible]

[16] [illegible] 20 [illegible]

[illegible] insights[illegible]

[illegible]

[17] [illegible] Ferdinand Karl Schweikart [illegible]

[18] [illegible]

[19] [illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[20] [illegible]

[21] [illegible] Filippo Marinetti [illegible] Manifesto del Futurismo[illegible]

[illegible] Technological Singularity [illegible] Nature [illegible] AlphaGo Zero [illegible] superhuman [illegible]

[illegible] go rogue[illegible] go rogue [illegible]

[illegible]

[22] [illegible] 1917 [illegible]

[illegible]

[illegible](Паша)[illegible] personality[illegible]

[illegible] 1917 [illegible]

[illegible]1917 [illegible]

[illegible](Лара)[illegible]

[illegible]

[illegible]

[illegible]

[23] [illegible]

[illegible] Technological Singularity [illegible]

[illegible]

[24] [illegible]

[illegible]·[illegible]·[illegible]

[illegible]

[illegible]“[illegible]”[illegible]

[illegible]

[illegible]

[illegible]“[illegible]”[illegible]“[illegible]”[illegible]

[25] [illegible]

[illegible]

[illegible]

[illegible] attraction[illegible]passion[illegible]commitment [illegible] commitment [illegible] exclusive[illegible] exclusive[illegible]

[illegible]

[illegible]

[illegible] leukotomy [illegible] BRAIN Initiative [illegible]

[26] [illegible]

[illegible]

[illegible] ARBEIT MACHT FREI[illegible]

[27] [illegible]

[28] The Selfish Gene (or The Immortal Gene) [illegible]: to be "a leader to the Greeks and a despot to the barbarians, to look after the former as after friends and relatives, and to deal with the latter as with beasts or plants"[illegible]

[29] [illegible]

[30] [illegible]

[illegible] go rogue [illegible] vandalist [illegible]1204 [illegible]

[illegible]

[illegible] Socratic method

□□□□□□□□□□□□□□

□□□□ AlphaGo Zero □□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□Nature □□ AlphaGo Zero □□□□□□□□□□□□□□□□□□□□□□□□□□ superhuman performance □□□□□□□□□□□

□□□□□□□Jack □□□□□□□□□□□□□Ralph □□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□Ralph □□□□□□□□□ leader□□□□□□□□□□ Piggy □□□□□□□□□□□□□□□□Ralph □□□□□□□□□□□□□□□□□□□□□□ Simon □□□□□□□□□□□□□□□

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[31] □□□□□□□□□□ Intel □□□□□□□□□□□□□□□□□□□□□□ CPU □□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□ CPU □ OS □□□

□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□ CPU □ OS □□□□□□□□□□□□□□□□□□□□1980 □□□

□□□□□□□□□□□ Intel □□□□□ smartphone □□ CPU □□ Technological Singularity □□

[32] □□□ smartphone □□CPU □□□□ Intel □□□□□□ ARM □□□□□□ARM □□□□□□□□□□□□□□□□□□□□□□ Intel □□□□□□ Google □ Android OS □□ open source □□□□□□□□□□□ CPU □ OS □□□□□□□□□□□□□

□□□□□□ Linus Torvalds □□□□□□□□□ Linux □□□Google □□ Android □□□□□□□□□□□□□□□□□□□□□□□□□ Microsoft □ Apple □ smartphone □□□□ Google □□□□□□□□□□□□□□□□□□□□□□□□□ Google □□□□□□□□□□□ CPU □ OS □□□□□□□ARM □ Google □□□□□□□□□□□□□□□□ CPU □ OS □□□ smartphone □□□□□□□□

□□ smartphone □□

[33] □□□□□□□□□□□□□□□ program music□□□□□□□□□□□□ program music□“□□”□□□

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[34] □□

[35] □□□□□□□□□□□□□□□□□□□□□□□□□ 2019 □□□□□□□□□□□□□“□□□□□□□□□□□”□□□□“□□□□□□□”□“□□□□”□□□□□https://www.chinesepen.org/blog/archives/121899□□

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[illegible] The Selfish Gene [illegible]“[illegible]”[illegible] The Selfish Gene [illegible]

“[illegible]”[illegible]

[illegible]

[36] "On 28 July, after reading Serbia's reply, Wilhelm commented, 'But that eliminates any reason for war'[132] or 'every cause for war falls to the ground'.[133]……Wilhelm's sudden change of mind about war enraged Bethmann Hollweg, the military, and the diplomatic service, who proceeded to sabotage Wilhelm's offer.[135]", from https://en.wikipedia.org/wiki/July_Crisis.

[illegible] Wilhelm [illegible]

[illegible]Wilhelm [illegible]

[illegible]

[37] [illegible] Gilded Age [illegible] 1920 [illegible]

[38] [illegible]

[39] [illegible]

[40] [illegible] 1970 [illegible]

[illegible]

[illegible] [41][illegible]

[illegible]

[illegible]

[illegible] BRAIN Initiative [illegible] Moonshot[illegible]

[41] [illegible]

[illegible]

[illegible]

[illegible] (public service) [illegible]

[illegible]

[illegible]Leukotomy [illegible] go rogue [illegible] [48][illegible]

[illegible] leukotomy [illegible]

[42] [illegible]

[illegible]

[illegible]“[illegible]”[illegible] [43][illegible]“[illegible]”[illegible]

[illegible]

[43] [illegible]

[illegible]“[illegible]”[illegible]“[illegible]”[illegible]

[illegible] crowded[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[44] [illegible]AlphaGo Zero [illegible] AlphaGo Zero [illegible] AlphaGo Zero [illegible] AlphaGo Master [illegible] AlphaGo Zero [illegible] AlphaGo Master [illegible]

[illegible]AlphaGo Master [illegible]

[illegible] 737 Max [illegible]

“'In thousands of tests, nothing like this had ever happened,' he said.", Boeing Built Deadly Assumptions Into 737 Max, Blind to a Late Design Change, https://www.nytimes.com/2019/06/01/business/boeing-737-max-crash.html.

[45] [illegible] The Guadian [illegible] a meta-solution to any problem[illegible] AGI [illegible]

"Demis Hassabis ... is deadly serious when he tells me he is on a mission to 'solve intelligence, and then use that to solve everything else'.

......

'One way of thinking of AGI is as a process that will automatically convert unstructured information into actionable knowledge. What we’re working on is potentially a meta-solution to any problem.'",

from https://www.theguardian.com/technology/2016/feb/16/demis-hassabis-artificial-intelligence-deepmind-alphago[illegible]

[46] [illegible] Deep Blue [illegible]

[47] Leukotomy [illegible] Moniz [illegible] leukotomy [illegible] Leukotomy [illegible] Leukotomy [illegible] leukotomy [illegible] leukotomy [illegible] Moniz [illegible] leukotomy [illegible] https://www.nobelprize.org/prizes/medicine/1949/moniz/article/, First published 29 October 1998[illegible]

Moniz [illegible] leukotomy[illegible]"for his discovery of the therapeutic value of leucotomy in certain psychoses."[illegible] leukotomy [illegible] leukotomy [illegible]https://www.nobelprize.org/prizes/medicine/1949/moniz/biographical/[illegible]

[illegible]leucotomy [illegible]leucotomy [illegible] leucotomy [illegible]

[illegible] leukotomy [illegible]“[illegible]”[illegible]

[48] "Second US town pays up to ransomware hackers", https://www.bbc.com/news/technology-48770128[illegible]

[illegible]

[illegible]

[illegible]

[illegible] [49][illegible]

[49] [illegible] infrastructure [illegible] Snowden [illegible] [50][illegible]

[50] [illegible] Snowden [illegible] infrastructure [illegible] infrastructure [illegible]